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FIELD CROP VARIETY PLOTS

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A Typical Field Crop Variety Plot

VARIETY DESCRIPTIONS

WHEAT — OATS — BARLEY

FLAX — FORAGE CROPS

FIELD CROP VARIETY PLOTS ARE VALUABLE

Most farmers like to keep up-to-date on new varieties — and many new varieties are appearing each year. Field Crop Variety Plots, maintained by grain buyers of the Line Elevator Companies, are valuable because they demonstrate the qualities of new varieties under local climatic and soil conditions. To serve its purpose most effectively, however, the plot should be situated along a main highway, and should be prominently marked. Posters for this purpose are supplied. It is also an advantage if the plot is located close to the elevator where the grain buyer can visit it with local farmers.

Properly located and cared for, Field Crop Variety Plots serve a most important function in keeping grain buyers and farmers up-to-date on the newer developments in our rapidly changing agriculture.

GRAIN BUYERS DO EXCELLENT WORK

Seeding and caring for a grain plot entails a considerable amount of work. The maximum value of a plot, however, can only be obtained if it is properly seeded, and carefully weeded. It is obvious, of course, that more people will visit a well-cared-for plot than a neglected one. Generally speaking, over the years, Line Elevator Agents have done an excellent job of looking after their plots. Through their efforts they have brought credit to themselves, their Company, and to the community they serve.

PLOTS USEFUL TO MANY

Farmers and others in the community can derive a great deal of interest and information on field crop varieties from periodic visits to the plots during the growing season. In this way, the relative dates of maturity and growth habits of the various crop varieties can be observed. Great benefits can also be obtained if a Field Day is held at the plot. However, to be successful the Field Day must be well organized, and widely publicized. If at all possible a qualified crop specialist should be present to discuss the different varieties and answer questions.

Agricultural Representatives and other officials of the Provincial and Canada Departments of Agriculture are cordially invited to make full use of the plots both in extension work, and in insect and disease surveys. Furthermore, the plots can, and should, serve as a valuable source of study material for High Schools, 4-H Clubs and Agricultural Short Courses and Fairs.

Description of Varieties

The following brief descriptions of the varieties included in our Field Crop Variety Plots may be found useful in answering questions.

RED SPRING WHEAT VARIETIES

MARQUIS

Marquis resulted from a cross between hard Red Calcutta x Red Fife in 1892. It was selected and produced by Sir Chas. E. Saunders, Dominion Experimental Farm, Ottawa. Marquis was distributed from Indian Head in 1907, and for many years has been the standard of milling and baking quality.

Its average maturity is 109 days. The straw is of medium length and strong. Marquis has no resistance to stem or leaf rust, bunt, loose smut, takeall root rot, browning root rot or ergot. It has some resistance to common root rot.

THATCHER

Thatcher resulted from crossing (Marquis x Iumillo) x (Marquis x Kanred) in 1921, at the University of Minnesota. It was first distributed in Western Canada in 1935. It is now by far the most widely grown wheat variety in Saskatchewan and Alberta.

Thatcher is a high yielding variety with wide adaptability, maturing 4 days earlier than Marquis. It has high milling and baking quality. Thatcher is resistant to lodging, highly resistant to shattering, and has some resistance to spring frost damage. The kernels are small, have a tendency to bleach, and may be low in bushel weight under dry conditions. Thatcher is resistant to stem rust excepting Race 15B. It is resistant to loose smut, but susceptible to leaf rust and bunt.

REDMAN

This variety resulted from a cross Regent x Canus in 1934, by the Dominion Laboratory of Cereal Breeding, Winnipeg. It was first distributed in 1947. Redman was the leading wheat variety grown in Manitoba in 1953.

Redman is slightly earlier in maturity than Thatcher and has larger kernels with less tendency to bleach. It has straw of equal length and strength, equal resistance to shattering, and higher bushel weight. Redman is moderately susceptible to spring frost damage, resistant to bunt, moderately resistant to loose smut, moderately susceptible to common root rot and susceptible to leaf rust. It is resistant to stem rust excepting Race 15B.

CHINOOK

Chinook was developed from the cross Thatcher x S-615 in 1938, at the Swift Current Experimental Station. Chinook is a solid stemmed, sawfly-resistant variety. It has taller, weaker straw than Thatcher, less resistance to shattering but has higher bushel weight.

It is equal to Thatcher in maturity and has larger kernels with less tendency to bleach. Chinook is susceptible to spring frost damage, moderately susceptible to common root rot and susceptible to bunt, loose smut and leaf rust. Compared with Rescue, the original sawfly-resistant wheat, Chinook is taller and earlier, has higher bushel weight and is superior in quality. Chinook qualifies for all top grades.

SELKIRK

The result of a cross between (McMurachy-Exchange) x Redman³. It is a Redman-type variety which is resistant to Race 15B of stem rust. It has straw of equal length and strength to Thatcher but is slightly less resistant to shattering. Selkirk has good bushel weight. It is equal to Thatcher in maturity, and has larger kernels with less tendency to bleach. Selkirk is resistant to bunt and loose smut and moderately resistant to leaf rust. Owing to its resistance to Race 15B of stem rust, Selkirk will, no doubt, be most extensively grown in southern Manitoba and southeastern Saskatchewan — the "rust area" of Western Canada.

LEE

Lee was developed at the University of Minnesota by crossing Hope x Timstein in 1939. It was first distributed in 1951. Lee is highly resistant to leaf rust. It has shorter, slightly weaker straw than Thatcher and is slightly later in maturity. Its resistance to shattering and its bushel weight are equal to Thatcher, however, its kernels are larger and have less tendency to bleach. Lee is a bearded variety which is moderately susceptible to spring frost damage, moderately resistant to common root rot but susceptible to bunt and loose smut.

REGENT

Regent was developed at Winnipeg by the Laboratory of Cereal Breeding. Its parents are Reward and H-44. Regent was licensed in 1939, and was first distributed in 1941.

This variety is medium early. It yields fairly well in Manitoba, but in recent years it has been largely replaced by Redman. Regent has strong straw of medium length. It is fairly resistant to lodging, shattering and sprouting. Although it is resistant to many races of stem rust, Regent is not resistant to Race 15B. Regent is resistant, however, to bunt and loose smut, but quite susceptible to leaf rust.

LAKE

This variety was developed from the cross Regent x Canus made at the Experimental Station, Scott, Saskatchewan. It has recently been licensed in Canada.

Lake is later than Thatcher, but has stronger straw and produces larger kernels than Thatcher with less tendency to bleach. Lake possesses a great deal of drought resistance. In quality Lake is equal to Marquis. It is also fairly resistant to bunt, but is not very resistant to loose smut or to root rot. Lake is susceptible to Race 15B of stem rust and also to leaf rust. It is suitable for growing in the drier areas of Saskatchewan and Alberta.

SAUNDERS

This variety was developed by the Cereal Division, Central Experimental Farm, Ottawa. It was licensed in 1947 and first distributed to farmers in Western Canada in 1948.

This variety is slightly earlier than Thatcher. However, except in the Peace River area it does not usually yield as well as Thatcher. Saunders is quite resistant to lodging, and does not shatter readily. It is resistant to loose smut, but only fairly resistant to bunt. Saunders is susceptible to Race 15B of stem rust, and has little resistance to leaf rust. Because of its earliness this variety does well in the northern areas of the Prairie Provinces. Saunders has good milling and baking qualities.

DURUM WHEAT VARIETIES

STEWART

Stewart was developed by the North Dakota State Experimental Station from the cross (Mindum x Vernal) x Mindum. It was first distributed in 1946.

Stewart has good macaroni quality and is eligible for the top durum grades. It has long, medium strong straw and is resistant to leaf rust and to many races of stem rust. Stewart is, however, susceptible to Race 15B of stem rust. It is susceptible to bunt and moderately susceptible to kernel smudge (Black Point) and common root rot.

MINDUM

Mindum is a selection from a field of common wheat made at the University Farm, St. Paul, Minnesota in 1896. It has long weak straw. Mindum is moderately resistant to stem rust (excepting Race 15B) and leaf rust, and is moderately resistant to bunt, kernel smudge, and common root rot. The macaroni quality of Mindum is satisfactory.

PELISSIER

This variety was introduced to Canada from the United States. The stock now grown in Western Canada arose from a selection made at the University of Saskatchewan as early as 1921. Pelissier was licensed for sale in Canada in 1929.

Pelissier is medium late. It has medium-long and fairly strong straw. Pelissier usually outyields Mindum and Stewart in the drier areas of Saskatchewan. However, Pelissier is inferior in quality to Mindum and is not eligible for grades above 3 C.W. Amber Durum. It is fairly resistant to leaf rust, but susceptible to bunt, loose smut, root rot and to most common races of stem rust including Race 15B.

OAT VARIETIES

VICTORY

Victory resulted from a Swedish selection out of Milton and was first introduced in 1911. It is a late, plump-seeded variety which yields well where rust is not a factor. It has slightly weak straw of good length. Victory has no resistance to smuts or rusts.

RODNEY

Rodney was developed at the Dominion Laboratory of Cereal Breeding, Winnipeg, in 1943 from a cross of (Victoria - R.L.524 x Victory - Hajira) x Roxton. It was first distributed in 1954.

Rodney is a high yielding, medium late-maturing variety with medium tall, strong straw. It has large white kernels with a thin hull and has very high bushel weight. Due to its thin hull and large kernel, Rodney tends to dehull readily during threshing. It is resistant to smut, to most races of stem rust, to Victoria blight, and moderately resistant to crown rust.

EXETER

This variety was developed from the cross Victory x Rusota made in 1929 at the Dominion Laboratory of Cereal Breeding, Winnipeg, Manitoba.

Exeter has approximately the same maturity, straw qualities and kernel type as the Victory parent, but has moderate resistance to stem rust. It is susceptible to crown rust, partially resistant to smut and resistant to Victoria blight. Exeter, being a medium late variety, is adapted chiefly to the later oat growing sections of the stem rust areas of the West.

FORTUNE

Fortune was developed at the University of Saskatchewan from the double cross Victory (Victoria x Richland) x (Markton x Victory). It was licensed in 1948.

It is a little earlier maturing, taller and stronger strawed than Exeter, with a lower hull percentage and slightly smaller kernel. Fortune is susceptible to crown rust but has stem rust resistance similar to Exeter and is also resistant to Victoria blight and smut. It also has the ability to resist sprouting after maturity under wet conditions.

AJAX

Ajax was developed at the Dominion Laboratory of Cereal Breeding, Winnipeg, from a cross Victory x Hajira in 1930. It was first distributed in 1943. It is earlier maturing than Exeter with about the same yielding ability. It is similar to Exeter in height, strength of straw and in stem rust resistance. It has moderate resistance to crown rust and the smuts. Its kernel is slightly smaller, but it equals Exeter in bushel weight.

GARRY (New) Victory x (Victoria x 'Hajira - Banner'). The original Garry variety was developed at the Dominion Laboratory of Cereal Breeding, Winnipeg in 1939. The new Garry is a Victoria blight resistant selection from the original Garry which was distributed in 1947. Garry matures 2 to 3 days earlier than Exeter. It has fairly strong straw, and a large plump kernel. It is resistant to smut, stem rust, Victoria blight, and moderately resistant to crown rust. Garry is eligible for the top grades. It is fairly widely adapted.

TORCH Torch was produced at the University of Saskatchewan from a cross Nakota x (Hajira x Joannette). It is a white-seeded, mid-late, hull-less variety with strong straw of medium length. It is resistant to loose and covered smut, stem rust and Victoria blight, but susceptible to crown rust. It is moderately resistant to shattering and has a very good bushel weight — usually over 45 lbs. per bushel.

LARAIN Larain was developed at the Cereal Division, Central Experimental Farm, Ottawa from a cross between Alaska and Gold Rain. Final selection and development of this variety was made at the Experimental Station, Lacombe, Alberta. It was first distributed in 1945. Larain is an early maturing variety with medium tall, strong straw. It has a large white kernel and heavy bushel weight. It is resistant to Victoria blight but susceptible to both stem rust and crown rust and to smut. Larain is grown chiefly in Alberta in areas where early fall frost may be a hazard. It is useful where delayed seeding is practised for wild oat control.

EAGLE Eagle was developed from a cross between Victory and Von Lochow's Yellow made in Sweden. It was licensed in Canada in 1937.

Eagle is a medium early variety with fairly strong straw of medium length. The kernels are of medium size. It is fairly resistant to lodging. Eagle is resistant to most races of stem rust, resistant to Victoria blight, but moderately susceptible to smut.

This variety is widely grown in Alberta and to some extent in Saskatchewan.

MALTING BARLEY VARIETIES

O.A.C. 21 O.A.C. 21 was selected from Manchuria by the Ontario Agricultural College. It was first distributed in 1910. It is a rough-awned, 6-rowed barley of medium maturity. It yields well although the heads break off rather badly when ripe. O.A.C. 21 was the standard malting barley for many years but has been replaced with higher yielding varieties.

MONTCALM

Montcalm was developed at Macdonald College from a cross (Michigan x Common 6-rowed) x Mandscheuri, in 1918. It was first distributed in 1946. It is similar to O.A.C. 21 but has relatively smooth awns, yields slightly more, and the heads do not break off so readily at harvest time. It appears to be a few days later maturing than O.A.C. 21. Very careful threshing to avoid hulling is necessary with this variety. Montcalm is accepted as being equal to O.A.C. 21 for malting. It leads all the other barley varieties in popularity in Manitoba and Saskatchewan.

OLLI

Olli resulted from a selection made by the Central Experimental Farm, Ottawa, from a hybrid introduced from Finland. It is a rough-awned, 6-rowed, early maturing variety and has a rather low yield. Because of early maturity it is widely used in the control of wild oats. It is not adapted to straight combining. It is moderately resistant to stem rust and covered smut but has no resistance to leaf rust. Olli is accepted for malting. It is widely grown in central and northern Alberta and northern Saskatchewan.

GARTONS

Gartons originated with the John Gartons Seed Company of England. Little is known of its actual history. In the early 1920's, Gartons No. 68 was grown quite extensively in Manitoba. O.A.C. 21, however, practically displaced it. In 1930 a second quantity of Gartons was obtained from England by a farmer near Portage la Prairie. Selections from this seed were grown widely in Manitoba. In recent years Gartons has been largely replaced by other varieties. No registered stocks are being produced.

Gartons is a 6-rowed, rough-awned, early maturing variety with medium tall, weak straw. Gartons is not equal to O.A.C. 21 for malting purposes and cannot be graded in the two top grades No. 1 and No. 2 C.W. Gartons is quite resistant to stem rust. It has a fairly good bushel weight and produces a good yield when seeded late. It is used in Manitoba in the wild oat control program.

FEED BARLEY VARIETIES

TITAN

Titan was produced at the University of Alberta from a cross Trebi x Glabron. It was first distributed in 1943. It is a medium early, smooth-awned, 6-rowed variety with high resistance to lodging. Titan is resistant to covered and false loose smut and some races of true loose smut, but is susceptible to rusts. It is suitable for straight combining. Titan is not widely grown as the awns are so persistent as to make it difficult to thresh.

VANTMORE

Vantmore was developed at the Experimental Station at Brandon, Manitoba from a cross between Titan and Vantage. It was licensed for sale in Canada in 1954.

Vantmore is a high yielding, 6-rowed, smooth-awned variety with strong straw of medium length. It is medium late to late in maturity. Vantmore is not accepted for malting purposes. It is resistant to stem rust but susceptible to leaf rust. It has some resistance to loose smut and covered smut but can be badly damaged by net blotch and certain other leaf spotting diseases. The limited information available indicates that it is best adapted to the black soil zones in Manitoba and eastern Saskatchewan.

NEWAL

Newal was produced at the University of Alberta from a cross (Manchuria x Lion) x O.A.C. 21 in 1919. It was first distributed in 1935. Newal is a medium early, smooth-awned, 6-rowed variety with moderate resistance to lodging. It is not acceptable for malting. It is susceptible to rusts and loose smut, but moderately resistant to covered smut. Newal is not suitable for straight combining.

HUSKY

Husky barley was produced at the University of Saskatchewan from a cross ((Peatland x ~~Royal~~ ^{Royal}) x O.A.C. 21) x Newal. It is a high yielding, 6-rowed, smooth-awned feed barley with yellow kernels. Husky is resistant to stem rust but moderately susceptible to leaf rust. It is moderately resistant to covered smut but susceptible to loose smut. Husky has strong straw of average length and has a wide adaptability to different soil and climatic conditions.

WARRIOR

Warrior was produced at the University of Saskatchewan from a cross (Trebi x Colseas). It is a 6-rowed early maturing, hooded feed barley with blue aleurone and strong straw of medium length. It is suitable for combining. Warrior is moderately resistant to covered smut and resistant to loose smut. Because of its early maturity, Warrior is recommended for use in wild oat control.

PLUSH

Plush was developed at the Experimental Farm at Brandon, Manitoba from a cross between Lion and Bearer. It was released to growers in 1938.

Plush is a smooth-awned, 6-rowed variety of medium late to late maturity. The straw is medium long and of medium strength. The kernel is of medium size and good bushel weight. The kernels are inclined to peel badly in threshing. It is a feed barley. Plush is

very susceptible to covered smut and false loose smut. It is also susceptible to loose smut, stem rust, leaf rust and certain other leaf spots and blights.

Plush is grown quite extensively in Manitoba and eastern Saskatchewan.

VELVON II

Velvon II was developed by the Agricultural Experimental Station, Logan, Utah. It is a selection from the original Velvon which resulted from crossing Trebi with a selection from a cross between Coast and Lion. It was licensed for sale in Canada in 1950.

Velvon II is a medium late, 6-rowed, smooth-awned variety. It has medium strong straw and is suitable for straight combining. It is a feed barley. Velvon II is susceptible to both stem and leaf rust. It is susceptible to the current races of covered and loose smut and to certain leaf spotting diseases.

Velvon II is recommended for parts of Alberta and Saskatchewan but occupies only a small percentage of the barley acreage.

WOLFE

Wolfe was developed at the Experimental Farm, Lacombe, Alberta, although the original cross was made at Ottawa. It has Sanalta, Titan, Montcalm and Olli as parents. It was licensed for sale in 1954.

Wolfe is a 6-rowed, smooth-awned variety with strong straw of short to medium length. It has outyielded Olli in central Alberta. It is a feed barley. Wolfe is quite susceptible to the current races of smuts as well as certain other barley diseases.

Wolfe is recommended for central Alberta.

GATEWAY

Gateway was developed at the University of Alberta, Edmonton, by crossing Olli with a selection from a cross between Newal and Olli. It was licensed for sale in 1950.

Gateway is a very early maturing variety with short to medium straw of moderate strength. The kernel is long and has fair bushel weight. This variety has little resistance to leaf or stem rust and is moderately susceptible to loose smut, false loose smut and covered smut.

Gateway seems to be particularly well suited to the black and grey-wooded soils of Alberta.

HARLAN

Harlan was developed at the U.S.D.A. sub-station, Aberdeen, Idaho, from a composite cross. It was introduced into Canada in 1945 by the Experimental Station at Swift Current, Saskatchewan.

Harlan is a medium early, 6-rowed, rough-awned "feed" barley variety with medium short straw. It has a long kernel of good bushel weight. It is resistant to lodging and used widely under irrigation. Harlan is susceptible to leaf rust, stem rust, loose

smut, stripe and Bacterial blight. It is resistant to covered and false loose smut.

Harlan is particularly well adapted to the irrigated areas of southern Alberta and Saskatchewan.

MILLING BARLEY VARIETIES

HANNCHEN

Hannchen was selected from Hanna by the Plant Breeding Station, Svalof, Sweden. It was first introduced about 1908. It was re-selected by the University of Saskatchewan. Hannchen is a rough-awned, 2-rowed, late-maturing variety, which has short weak straw. It is reasonably satisfactory for straight combining. Hannchen is susceptible to both stem and leaf rust, and to loose and covered smut. It is eligible for the top 2-row grades. Hannchen has a place in localized areas because it produces fairly good yields of a high quality barley that is suitable for feed or the pearling trade.

COMPANA

Compana was selected from a composite cross made by the U.S.D.A., Aberdeen, Idaho. It is a smooth-awned, 2-rowed, early maturing variety. It has short weak straw, but is reasonably satisfactory for straight combining. Compana is particularly adapted to the drier areas. It is susceptible to both stem and leaf rust and to loose and covered smut. Because of its large plump kernel and shallow crease Compana is popular as a pearling barley. It is not a malting barley.

FLAX VARIETIES

REDWING

Redwing was selected by the Minnesota Agricultural Experiment Station from seed of flax obtained by the U.S.D.A. from Russia in 1904. It was first distributed in Canada in 1932. Redwing is resistant to wilt, but susceptible to rust and Pasmio. It has blue flowers and small brown seeds. The straw is long and strong. Redwing is widely grown in areas where early maturity is an important factor. It has the ability to yield well when grown in the northern areas of the Prairie Provinces.

REDWOOD

Redwood was produced from the cross C.I.980 x Redson by the University of Minnesota and the U.S.D.A. It was first distributed in 1951. Redwood is a high-yielding, medium-late maturing variety, with straw of good length and strength. It is highly resistant to wilt and rust, fairly tolerant to Pasmio, and ripens uniformly. The oil content is exceptionally high and of excellent quality. Owing to its late maturity Redwood is recommended for growing in the southern parts of the Prairie Provinces.

ROCKET

Rocket is the result of the cross (Argentine 8C x Redwing) made by the Cereal Division, Experimental Farm, Ottawa. It was first distributed in 1947. Rocket is a high-yielding, medium-late variety. It is resistant to rust and moderately resistant to wilt. It is also resistant to lodging and ripens uniformly. The oil content is high and iodine value medium high. It is generally recommended for the southern districts of Manitoba and Saskatchewan.

MARINE

Marine was developed at the North Dakota Experimental Station from the cross C.I. 975 x Sheyenne. It was licensed for sale in Canada in 1952. Marine is a high-yielding, early-maturing variety, with straw of good length and strength. It is resistant to wilt and rust. Although Marine has more tolerance to the Pasmio disease than most flax varieties it is classed as only moderately resistant to pasmo. Marine, unlike many other flax varieties, has the ability to produce high yields when sown late. It will probably replace Sheyenne, especially in Manitoba.

VICTORY SASK. 5260

Victory Sask. 5260 is a new selection developed at the University of Saskatchewan from the original Victory produced at the North Dakota Experimental Station. It is highly resistant to wilt and rust. Victory Sask. 5260 has strong straw of good length, and matures more uniformly than the original variety. The oil content is high and of good quality.

SHEYENNE

This variety was produced by the North Dakota Experiment Station. It was licensed for distribution in Canada in 1947.

Sheyenne is early in maturity. It has strong straw of medium length. The seed is small, lighter brown than Redwing, rather low in oil content but producing oil of good quality. Sheyenne is resistant to wilt and to rust, and moderately tolerant to pasmo.

ROYAL

A selection from the variety Crown made at the University of Saskatchewan. It was licensed and distributed in 1939.

Royal is medium to late in maturity. It has a tendency to develop late tillers and therefore does not ripen uniformly. It is of medium height with rather weak straw when grown under moist soil conditions. The seed of Royal is brown in color, has high oil content, but the oil is only of average quality. Royal is moderately resistant to wilt. It is susceptible to rust in the seedling stage but shows more resistance to rust as it approaches maturity. Royal is susceptible to pasmo.

VARIETIES OF SPECIAL CROPS

CROWN MILLET: Crown Millet was developed at the Central Experimental Farm, Ottawa. It is a Proso-type millet with hairy stems and a spreading panicle. The seeds are large and pearl-grey in color. Crown Millet is useful as a late-sown catch crop, a soiling crop to be fed fresh, or harvested for feed. In dry years, Crown Millet can be used in place of oats or barley. The grain has about the same feeding value as barley.

SIBERIAN MILLET: Siberian Millet was introduced from Russia. It is a Foxtail-type millet with smooth stems and foxtail-type of head. It makes a better hay than Crown Millet. The seeds are small and orange and yellow in color. Siberian Millet is less palatable than Crown Millet, and has only about 85 per cent of the feed value of barley. Siberian Millet can be used as a late-sown catch crop, for green feed and as a soiling crop cut and fed fresh.

VARIETIES OF GRASSES

FAIRWAY CRESTED WHEAT: Fairway Crested Wheat was introduced from the U.S.A. about 1915. The Fairway strain was produced by the University of Saskatchewan and released to farmers about 1932. Crested wheat grass is a long-lived, perennial bunch grass with slightly creeping, extensive root system. It is very drought resistant and is frost hardy. It produces excellent early spring and late fall pasture. When cut at the flowering stage it produces hay of good quality. Crested wheat provides a good farm lawn grass and because of its extensive root system is useful in soil conservation.

PARKLAND BROME: Parkland Brome was selected by the University of Saskatchewan. It is a long-lived, fine-leaved and fine-stemmed perennial grass with slightly creeping roots. It is moderately drought resistant and frost hardy. Parkland Brome is a valuable hay and pasture plant.

CREEPING RED FESCUE: Creeping Red Fescue was selected at the Olds School of Agriculture from strains originally introduced by the Canada Department of Agriculture from Czechoslovakia in 1931. It was released to farmers about 1938. It is a long-lived, short-growing perennial grass with creeping roots and narrow folded leaves. It is not drought resistant but is hardy. Creeping Red Fescue is excellent for pasture and lawns but its low-growing leaves make it less desirable for hay purposes. It is excellent for restoring fibre in the soil.

LADAK ALFALFA: Ladak was introduced from India by the U.S. Department of Agriculture. It was first introduced into Canada by the University of Saskatchewan. Ladak is a leafy, long-lived, perennial legume; hardy, drought resistant and moderately wilt resistant. It yields a heavy first cut of hay but is slow to recover after cutting. It is widely adapted but particularly suitable for the drier areas.

ALSIKE CLOVER: Alsike was introduced from Europe by early settlers. It is a low-growing, branched, perennial legume, valuable in hay mixtures. It favors moist soils and withstands flooding. It is tolerant to both alkaline and acid conditions to a greater extent than most clovers. It is winter-hardy where moisture is fairly abundant. It is useful as a pasture plant, hay plant, or for seed production or soil building.

ALPHA SWEET CLOVER: Alpha Sweet Clover was developed and distributed by the University of Saskatchewan. It is a dwarf, white-blossomed, biennial clover. It is valuable for green manure, as a soil builder and as a pasture crop. Alpha Sweet Clover produces less tonnage per acre than Erector or Arctic Sweet Clover.

ERECTOR SWEET CLOVER: Erector Sweet Clover was selected and produced at the Dominion Experimental Farm, Brandon. It is a bushy, erect, yellow-blossomed, biennial clover. It is leafy and fine-stemmed, hardy and drought resistant. Erector Sweet Clover is excellent for hay and pasture and a good soil builder. It was bred in an attempt to eliminate low-growing branches which were difficult to harvest on former varieties.

ARCTIC SWEET CLOVER: Arctic Sweet Clover was selected by the University of Saskatchewan from stocks introduced from Siberia. It is a tall, high-yielding, white-blossomed biennial clover. Arctic is hardy, is finer stemmed and more leafy than the common type, and is drought resistant. It is a valuable plant for hay and pasture and a good soil builder.



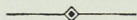
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